

Amendments to the Specification:

Please replace paragraph [0013] as filed with the following paragraph in which an equation number is added

"[0013] According to an aspect of the invention, the step of determining the fault resistance R_{fault} is performed by

$$R_{fault} = \frac{V_{link2} - V_{link1}}{2(Ig_{f1} - Ig_{f2})} - \frac{Rg}{2} \quad (1)$$

where:

V_{link1} is the voltage at the load at the first time;

V_{link2} is the voltage at the load at the second time;

Ig_{f1} is the current in the measurement path at the first time;

Ig_{f2} is the current in the measurement path at the second time; and

Rg is the equivalent resistance."